REPORT NO. 8

Cotton Fiber and Processing Test Results

CROP of 1970

Consumer and Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 November 27, 1970

This is the eighth of a series of reports of fiber and processing test results from the 1970 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as AID 344, Summary of "Cotton Fiber and Processing Test Results, Crop of 1969, May 1970." These reports are published by the Standardization Section, Cotton Division, Consumer and Marketing Service, U. S. Department of Agriculture, Memphis, Tennessee.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1970

Discussion of Test Results

Cotton testing laboratories of the Consumer and Marketing Service, USDA, report that average fibers are finer than last year for all medium staple samples tested through November 20, 1970. The remainder of the fiber properties are about the same as a year ago. Yarns spun from these samples show less strength with other yarn quality factors about the same. Average spinning potential yarn number is higher than a year ago.

Southwestern short staple samples are longer, coarser and stronger at 1/8-inch gage strength. Picker and card waste is lower. Yarns spun from these samples are stronger with the other yarn quality factors about the same as last year. Average spinning potential yarn number is higher, reflecting the longer fibers.

Southeastern medium staple samples are shorter, finer and show less picker and card waste than a year ago. Yarns spun from these samples show fewer imperfections with the other yarn quality factors about the same.

South Central medium staple samples are shorter and weaker than last year. Yarns spun from these samples are weaker with slightly lower appearance grades.

Southwestern medium staple samples are longer, stronger at 1/8-inch gage and show a higher Shirley Analyzer nonlint content than a year ago. Yarns spun from these samples are weaker with lower appearance grades and more imperfections. Average spinning potential yarn number is higher than a year ago, reflecting the longer fibers.

Western medium staple samples are finer, weaker and show a lower picker and card waste compared to last year. Yarn quality is about the same. Average spinning potential yarn number is higher.

Western long staple samples are finer and stronger than a year ago. Yarns show poorer appearance grades and more imperfections.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 20, 1970 1/

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results				
		Fibrograph		Mike fineness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appearance	Imperfections	
	No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No.	Yarn No.
									22s Carded Yarn			
Short Staple:												
Southwest												
1969	22	0.90	46	4.3	88	19.8	3.4	7.0	88	118	25	38
1970	20	0.95	46	4.5	87	21.2	3.7	6.4	91	116	25	44
Medium Staple:												
Southeast												
1969	67	1.10	46	4.7	83	23.1	3.2	7.1	104	102	21	60
1970	68	1.08	45	4.5	83	22.9	3.5	6.6	103	102	17	61
South Central												
1969	148	1.10	45	4.7	85	22.9	2.9	6.4	108	113	19	61
1970	87	1.08	45	4.7	82	22.4	2.9	6.0	102	110	19	62
Southwest												
1969	33	1.05	46	4.5	87	22.1	2.7	6.2	109	122	19	59
1970	41	1.09	46	4.5	86	22.7	3.2	6.1	103	118	23	65
West												
1969	29	1.10	45	4.5	95	25.5	2.9	6.3	121	115	22	66
1970	33	1.10	45	4.3	93	25.0	2.6	5.4	118	117	21	71
U.S. Average												
1969	277	1.09	45	4.7	86	23.1	2.9	6.5	109	112	20	61
1970	229	1.08	45	4.5	85	23.0	3.1	6.1	105	110	19	64
Significant difference 2/		0.02	2	0.2	2	0.5	0.5	0.5	4(22s) 2(50s)	5	2	3

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 20, 1970 1/ (Continued)

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results				
		Fibrograph		Mike fineness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appearance	Imperfections	
	No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No.	Yarn No.
									22s Carded Yarn			
Long Staple:												
Southeast												
1970	12	1.15	45	4.7	82	23.4	4.6	8.6	110	103	21	66
South Central												
1970	3	1.15	42	4.7	86	23.3	4.4	8.9	100	93	27	61
West												
1969	5	1.16	45	4.1	93	25.7	2.9	7.5	134	102	19	76
1970	7	1.17	45	3.8	95	27.8	3.0	7.4	136	91	32	76
Extra Long Staple:		Array							50's Combed Yarn			
West												
1969	1	1.41	31	4.0	101	32.0	2.8	7.0	67	110	1	
1970	2	1.52	30	3.9	98	34.9	2.2	6.7	67	115	2	
Significant difference 2/		0.02	2	0.2	2	0.5	0.5	0.5	4(22s) 2(50s)	5	2	3

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1970

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif		Zero Gage	1/8" Gage			Gra	Yel	Waste	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHWESTERN AREA																					
NORTHWEST TEXAS																					
	HASKELL						LANKART 57					95 PERCENT									
1	MID LT SP	30	0.91	45	5.1	84	20.4	7.1	2.8	2	4	5.7	285	84	6.3	5.6	120	120	50	30	37
	LITTLEFIELD						PAYMASTER 202					98 PERCENT									
1	SLM LT SP	29	0.89	46	4.6	90	20.4	6.3	3.9	3	4	5.9	302	91	6.3	5.5	120	110	49	29	41
	MORTON						RILCOT 90					80 PERCENT									
1	SLM	29	0.89	46	5.2	87	20.9	6.4	2.7	3	4	5.6	282	85	5.9	5.2	120	120	55	28	37
	PETERSBURG						PAYMASTER 909					70 PERCENT									
1	SLM	32	0.97	48	4.3	90	22.7	7.4	3.2	2	4	5.7	339	100	7.2	5.9	120	110	63	35	55

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph			Fiber Strength		Elongat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHEASTERN AREA																					
ALABAMA																					
HOLTVILLE							COKER 417					99 PERCENT									
4 LM	51	35	1.13	43	4.0	82	22.8	5.4	3.0	3	3	6.3	109	39	6.8	5.5	90	70	29	19	64
LA FAYETTE							DIXIE KING II					80 PERCENT									
3 LM LT SP	52	34	1.08	45	4.3	78	21.9	5.4	4.1	4	3	7.1	95	32	6.5	4.9	100	80	19	11	58
RED LEVEL							COKER 100A					80 PERCENT									
3 LM LT SP	52	34	1.03	45	4.6	82	22.7	5.3	3.7	4	3	7.2	87	26	5.8	4.0	100	80	24	16	52
ST. CLAIR							COKER 201					100 PERCENT									
4 LM	51	34	1.09	45	4.4	82	22.2	5.0	3.8	2	3	6.9	98	33	6.0	4.7	100	80	26	18	58
SYLACAUGA							DIXIE KING II					100 PERCENT									
2 SLM	41	33	1.03	44	4.5	83	22.3	5.0	2.7	2	3	6.6	98	31	6.2	4.5	100	70	22	18	58
GEORGIA																					
COLBERT							COKER 201					100 PERCENT									
3 SLM LT SP	42	34	1.09	46	4.6	80	23.4	5.7	3.3	2	3	6.6	103	35	6.7	5.1	110	90	17	14	61
PINEHURST							COKER 417					100 PERCENT									
3 LM	51	34	1.15	46	4.3	83	23.2	5.0	3.5	3	3	6.3	107	39	6.8	5.3	100	90	16	13	64
TENNILLE							COKER 201					90 PERCENT									
4 LM LT SP	52	33	1.06	45	4.8	85	21.7	5.3	4.9	4	3	8.1	91	28	6.0	4.4	90	70	22	18	55
NORTH CAROLINA																					
LAURINBURG							MCNAIR 1032B					100 PERCENT*									
3 LM	51	34	1.04	46	4.3	82	22.4	5.6	5.2	3	2	7.8	102	35	6.5	5.2	100	80	19	20	56
SOUTH CENTRAL AREA																					
ARKANSAS																					
FOREMAN							DELTAPINE 16					95 PERCENT									
2 LM	1/51	34	1.10	42	4.5	84	24.5	8.0	2.5	2	2	6.3	103	35	6.3	4.9	110	90	21	21	64
HELENA							DELTAPINE 16					99 PERCENT									
1 SLM	41	35	1.10	45	4.6	77	22.2	7.1	2.9	2	3	5.6	103	37	6.3	5.0	120	80	25	20	73
2 SLM	41	35	1.12	44	4.1	81	23.2	8.0	1.9	2	2	5.5	108	39	6.7	5.0	120	90	20	16	69

* 100 percent selected for tests, less than 100 percent in the area.

1/ Reduced from 41 because of grass.

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970---(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph			Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA---(Continued)																					
ARKANSAS---(Continued)																					
HUGHES							STONEVILLE 213					100 PERCENT									
2 SLM	41	34	1.09	44	4.5	82	21.2	6.9	3.0	3	4	6.3	95	32	5.8	4.3	110	80	30	25	60
LEACHVILLE							BRYCOT 1					100 PERCENT									
3 LM	51	34	1.09	46	4.0	88	22.0	6.5	2.8	4	2	6.3	100	35	5.3	4.0	100	80	35	28	65
MARKED TREE							STONEVILLE 213					90 PERCENT									
2 SLM	41	35	1.09	47	4.9	78	21.2	7.2	3.2	3	3	6.2	97	33	5.6	4.0	120	100	20	15	58
LOUISIANA																					
LAFAYETTE							STONEVILLE 213					85 PERCENT									
2 LM	51	34	1.10	46	4.5	82	21.5	5.9	3.4	4	3	6.2	96	32	5.3	3.7	120	90	25	17	65
TRANSYLVANIA							DELTAPINE 16					100 PERCENT									
2 SLM LT SP	42	34	1.13	44	4.3	78	21.8	7.7	3.2	3	3	6.4	104	37	6.1	4.8	110	90	32	22	74
MISSISSIPPI																					
BRUCE							STONEVILLE 213					80 PERCENT									
3 LM	51	33	1.04	44	4.6	83	22.1	5.4	2.8	4	3	6.0	94	29	6.5	4.7	100	80	18	13	53
CLARKSDALE							STONEVILLE 213					100 PERCENT									
2 LM	51	35	1.08	44	4.6	78	23.9	5.6	4.1	3	2	7.2	95	31	6.4	5.0	100	80	35	26	53
HOLLY SPRINGS							DELTAPINE 16					95 PERCENT									
2 SLM	41	35	1.13	45	4.6	78	22.9	6.7	3.3	2	3	5.7	103	36	7.3	5.9	100	90	17	13	59
INDIANOLA							DIXIE KING II					100 PERCENT									
2 LM	51	35	1.10	46	4.7	91	23.7	4.5	4.1	4	3	7.4	95	31	5.8	4.3	100	80	25	20	57
INDIANOLA							STONEVILLE 213					100 PERCENT									
2 SLM	41	35	1.10	46	4.8	83	22.1	5.4	3.1	3	3	6.1	98	32	6.3	4.7	90	80	22	19	55
LAKE CORMORANT							DELTAPINE 16					100 PERCENT									
2 SLM	41	35	1.14	46	4.5	78	23.2	6.6	3.2	2	2	6.2	106	37	7.5	5.8	100	80	18	15	61
PANTHER BURN							DELTAPINE 16					100 PERCENT									
2 SLM	41	35	1.14	44	4.2	78	23.2	6.3	3.0	2	2	6.0	112	41	7.2	5.8	100	80	22	15	67

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970---(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph			Fiber Strength		Elongat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA---(Continued)																					
MISSISSIPPI---(Continued)																					
TRALAKE							DELTAPINE 16					100 PERCENT									
2 SLM	41	35	1.12	42	4.0	82	24.0	6.7	2.6	2	2	6.1	108	38	7.5	5.6	100	80	21	15	60
MISSOURI																					
SIKESTON							STONEVILLE 213					95 PERCENT									
2 SLM LT SP	42	34	1.08	45	4.4	78	23.3	7.2	3.8	3	3	6.0	99	34	5.9	4.6	120	90	34	20	62
TENNESSEE																					
BOLIVER							DELTAPINE 16					100 PERCENT									
3 SLM	41	34	1.09	45	4.6	78	22.4	7.2	2.0	2	2	5.2	107	37	7.6	5.9	100	90	16	12	60
DYERSBURG							STONEVILLE 213					90 PERCENT									
2 SLM LT SP	42	34	1.06	44	4.7	80	22.5	5.6	2.7	3	4	5.8	97	31	6.5	4.8	100	90	16	13	58
LEXINGTON							DIXIE KING II					100 PERCENT									
2 SLM LT SP	42	34	1.04	46	4.3	80	21.1	5.3	3.5	3	3	6.1	94	30	6.2	4.5	100	70	24	20	52
MILLINGTON							REX SMOOTH LEAF					90 PERCENT									
2 SLM	41	34	1.05	46	4.3	79	21.2	5.3	2.3	3	3	6.3	88	29	6.2	4.8	90	70	22	20	52
WYNNBURG							DELTAPINE 16					90 PERCENT									
2 SLM	41	34	1.12	47	4.7	80	22.8	6.3	2.2	2	3	5.8	104	36	7.1	5.4	100	80	18	14	58
SOUTHWESTERN AREA																					
CENTRAL TEXAS																					
BRYAN							STONEVILLE 213					100 PERCENT									
3 SLM LT SP	42	34	1.09	44	4.7	82	21.9	6.5	2.3	4	4	6.3	88	29	5.4	3.8	110	90	30	28	56
NAVASOTA							DELTAPINE 16					100 PERCENT									
3 SLM	41	34	1.09	44	4.6	84	22.3	7.0	2.4	2	2	5.7	101	32	5.5	3.9	120	90	20	20	59
SUGAR LAND							STONEVILLE 7A					100 PERCENT									
3 LM SP	53	34	1.08	44	4.4	91	19.6	4.9	7.6	6	4	11.7	78	22	4.1	2.3	100	80	45	37	48
NORTHWEST TEXAS																					
LUBBOCK							COKER 4104					100 PERCENT									
1 LM	51	33	1.05	43	4.1	86	23.8	6.4	4.0	3	3	7.1	101	34	5.7	4.1	100	70	49	36	56
ROPESVILLE							LOCKETT 4789A					100 PERCENT									
1 MID	31	33	1.04	45	3.6	89	23.3	6.9	2.0	2	4	5.3	112	41	6.3	4.9	110	80	30	25	68

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970---(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph			Fiber Strength		Elongat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHWESTERN AREA---(Continued)																					
NORTHWEST TEXAS---(Continued)																					
SMYER							PAYMASTER 222					75 PERCENT									
1 SLM	41	31	0.98	45	4.5	91	22.2	6.5	3.4	3	4	5.9	101	31	5.5	3.5	120	90	25	20	53
OKLAHOMA																					
ALTUS							DELTAPINE 16					90 PERCENT									
2 SLM	41	35	1.16	44	4.2	92	23.7	6.6	2.9	2	2	6.3	107	38	5.7	4.3	110	80	30	27	74
WESTERN AREA																					
CALIFORNIA																					
BAKERSFIELD							ACALA SJ-1					100 PERCENT									
2 SLM	41	36	1.14	44	3.8	98	26.3	5.4	3.1	2	3	6.1	128	48	5.7	4.6	110	80	23	19	79
BUTTONWILLOW							ACALA SJ-1					100 PERCENT									
2 MID	31	36	1.11	45	4.4	95	26.4	5.8	2.6	1	3	5.4	120	44	5.7	4.3	120	90	19	15	70
CHOWCHILLA							ACALA SJ-1					99 PERCENT									
1 SLM	41	36	1.12	47	4.6	100	26.4	5.4	2.2	1	3	4.6	132	50	5.8	4.5	130	100	14	9	80
COALINGA							ACALA SJ-1					100 PERCENT									
1 MID	31	36	1.11	46	4.4	100	26.6	5.6	1.9	1	3	5.3	124	46	5.7	4.3	130	90	19	12	80
CORCORAN							ACALA SJ-1					100 PERCENT									
2 MID	31	36	1.10	46	4.3	102	26.7	5.6	2.2	2	3	5.2	121	46	5.6	4.5	120	90	14	10	79
FIREBAUGH							ACALA 4-42					100 PERCENT									
1 MID	31	36	1.09	46	4.1	91	25.9	6.6	2.0	1	3	5.7	124	45	6.0	4.8	120	100	15	10	76
HANFORD							ACALA SJ-1					98 PERCENT									
1 MID	31	35	1.07	45	4.1	100	25.6	5.1	2.0	1	3	4.3	124	46	5.4	4.3	120	90	14	12	77
LOST HILLS							ACALA SJ-1					100 PERCENT									
2 MID	31	36	1.12	44	4.2	98	25.6	5.6	2.5	1	3	4.8	128	48	5.7	4.3	120	90	18	14	78
SAN JOAQUIN							ACALA 4-42					100 PERCENT*									
1 MID	31	35	1.06	47	4.4	102	26.8	5.6	2.6	1	3	5.3	129	47	5.4	4.3	110	90	24	16	76
TULARE							ACALA SJ-1					100 PERCENT									
2 SLM	41	36	1.12	46	4.3	100	24.9	5.4	3.5	2	3	5.9	127	46	5.7	4.4	110	100	18	14	84

* 100 percent selected for tests, less than 100 percent in the area.

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1970---(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph			Fiber Strength		Elongat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
WESTERN AREA---(Continued)																					
CALIFORNIA---(Continued)																					
VISALIA							ACALA SJ-1					100 PERCENT									
1 MID	31	36	1.12	45	4.2	101	27.5	5.4	1.9	1	3	4.3	130	49	5.5	4.4	120	100	17	15	79
2 MID	31	35	1.11	46	4.3	99	25.6	5.3	2.2	2	3	4.4	122	45	5.4	4.4	110	90	20	16	73
WEST TEXAS																					
PECOS							DELTAPINE 16					100 PERCENT*									
1 SLM	41	35	1.12	44	3.8	83	23.3	8.3	2.5	2	3	5.1	110	39	6.7	5.2	100	80	24	20	69
PECOS							STONEVILLE 7A					100 PERCENT*									
2 SLM	41	35	1.11	44	4.0	82	20.8	7.4	2.6	2	3	6.0	102	35	6.7	5.1	110	80	39	26	64

* 100 percent selected for tests, less than 100 percent in the area.

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1970

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph			Fiber Strength		Elon-gat'n	S.A. Non-Lint	Color Raw Stock		P & C and Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage	1/8"		Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHEASTERN AREA																					
ALABAMA																					
	ORRVILLE							COKER 310				100 PERCENT									
4	LM	51	35	1.18	46	4.6	88	24.1	4.8	5.1	3	2	8.6	105	37	6.0	4.7	100	80	27	19	60
												*	17.3	124	44	6.1	5.0	120	100	11	9	
SOUTH CENTRAL AREA																					
ARKANSAS																					
	WILSON							COKER 310				100 PERCENT									
2	LM	51	34	1.14	42	4.7	85	23.2	5.3	4.9	4	2	8.7	90	28	5.2	3.8	90	70	27	21	53
												*	24.4	119	42	6.1	4.7	130	100	7	6	
MISSISSIPPI																					
	TUNICA							COKER 310				100 PERCENT									
1	LM	51	36	1.18	42	4.5	86	24.0	5.2	4.3	3	3	9.2	101	34	6.0	4.5	90	70	29	22	62
												*	17.3	117	42	6.4	5.1	100	90	15	14	
WESTERN AREA																					
NEW MEXICO																					
	CARLSBAD							ACALA 1517C				100 PERCENT 1/									
2	SLM	41	37	1.19	46	3.8	93	26.7	5.2	2.9	1	2	6.9	133	49	6.9	6.0	110	90	15	11	73
												*	16.7	152	56	7.1	5.9	130	100	4	4	
	DEXTER							ACALA 1517V				100 PERCENT 1/									
2	SLM	41	38	1.19	46	3.7	96	27.7	5.7	2.8	1	3	8.4 2/	137	52	6.5	5.6	60	60	61	50	71
												*	14.1	152	58	6.8	5.5	60	60	56	41	
	HATCH							ACALA 1517V				72 PERCENT									
1	SLM	41	38	1.19	46	3.8	92	26.4	5.4	3.0	1	2	6.6	140	54	6.8	6.2	100	80	24	24	80
												*	13.4	155	59	7.1	6.0	100	100	17	14	
	TULAROSA							ACALA 1517-70				100 PERCENT									
1	MID	31	37	1.15	44	3.9	98	27.8	5.3	3.4	1	3	7.5	137	53	6.4	5.4	100	70	20	18	80
												*	17.0	157	59	7.2	6.0	100	90	8	8	

1/ 100 percent selected for tests, less than 100 percent in the area

2/ Cotton loaded card heavily during processing

* Comber Waste and Combed Yarn Data

Table 5 --Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1970

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Combed Yarns									
			Array Length		Mike	Fiber Strength		Elongat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns	
No	Grade Name & Code	Stple	UQL	CV		Zero Gage	1/8" Gage			Gra	Yel			50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No
WESTERN AREA																					
ARIZONA SAFFORD							PIMA S-4					75 PERCENT									
1	3	46	1.56	29	3.9	98	35.0	7.6	2.6	4	5	6.7	15.8	67	36	6.3	5.3	110	120	3	3
WEST TEXAS PECOS							PIMA S-4					85 PERCENT									
1	3	44	1.47	30	3.9	99	34.8	7.1	1.8	4	5	6.7	19.2	59	37	6.2	5.2	120	120	2	1